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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,518	12/28/2001	Peter Thomas Camble	30014514-1	1655

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THAI, TUAN V

ART UNIT	PAPER NUMBER
	2186

DATE MAILED: 07/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/034,518	CAMBLE ET AL.
	Examiner	Art Unit
	Tuan V. Thai	2186

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 19 April 2006.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-30 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 14-21 is/are allowed.

6) Claim(s) 1-8,10-13,22,23 and 25-30 is/are rejected.

7) Claim(s) 9 and 24 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 28 December 2001 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date . . .

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. . . .

5) Notice of Informal Patent Application (PTO-152)
6) Other: . . .

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Part III DETAILED ACTION

Response to Amendment

1. This office action is in response to Applicant's communication filed April 19, 2006. This amendment has been entered and carefully considered. Claims 1-13 and 22-30 remain pending in the application. Claims 14-21 are allowed.

2. Applicant's arguments with respect to claims 1-8, 10-13, 22-23, 25-30 under 35 U.S.C 102(b) have been fully considered, however they are not deemed to be persuasive. The rejection is therefore maintained.

Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. Claims 1-8, 10-13, 22-23 and 25-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. (USPN: 5,455,409); hereinafter Smith.

Claims 1-8, 10-13, 22-23 and 25-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. (USPN: 5,455,409); hereinafter Smith.

As per claim 1, Smith discloses a method for securing access to a data medium said method comprises recording a unique identification number (e.g. VOLUME serial number, VOLSER) assigned to each medium (tape cartridge) in at least a portion of a data library is equivalently taught as each tape cartridge is provided with a circuit device and memory operable to store VOLSER number of the cartridge (e.g. see column 5, line 67 bridging column 6, line 6; column 11, lines 25-28): Smith discloses utilizing the VOLSER number in order to track the location of a particular tape in a tape carrier based upon a match of the VOLSER number; for example, Smith discloses if the VOLSER numbers do match, a positive instruction is sent to action block 420, instructing the system to get the aisle, rack, and position numbers of the particular receptacle out of the 64 byte EEPROM memory in the microcontroller 300 (e.g. see column 24, lines 44-61). Smith does not particularly disclose commanding at least one selected data transfer element in said library to only accept media having particular ones of said

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identification numbers. It should be noted that by determining the location of the requested medium (tape) with respect to the matching of the VOLSER numbers, it's clearly understood that any transfer element within Smith's system must only accept media associated with the matching VOLSER in order to avoid, transferring of any unmatched media or unmatched media data to the host. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the current invention was made to implement the data transfer element in the library to only accept media having matching VOLSER number or matching identification number as being claimed. In doing so, it would enhance system reliability; reducing data transferring error by avoiding reading wrong data in any unmatched media, therefore being advantageous.

As per claim 2, Smith discloses clearing a previous list of allowed identification numbers for each data transfer element is equivalently taught as the EEPROM/Or respective memory devices can be programmed/changed/cleared with appropriated VOLSER (e.g. see column 6, lines 58 et seq.; column 8, lines 44 et seq.; column 10, lines 55 et seq.);

As per claim 3, Smith discloses reading the identification numbers (VOLSER number) of media/tape (e.g. see column 14, lines 22-23);

As per claim 4, listing the identification (VOLSER) numbers

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of media in memory storage of the at least one selected data transfer elements that the selected data transfer elements is to be allowed to access is equivalently taught as displaying/listing by the display unit 66 for indicating the VOLSER number and tape cartridge location of the requested tape cartridge and the designated tape cartridge drive into which it is to be loaded (e.g. see column 10, lines 45-49);

As per claim 5, entering identification numbers (VOLSER number) of media said at least one selected data transfer elements is allowed to access in memory storage of said at least one selected data transfer elements is taught as programming the respective memory devices associated with each tape with the VOLSER number of the particular tape and other pertinent information (e.g. see column 6, lines 59 et seq.);

As per claim 6, reading the identification (VOLSER) number of said medium/tape during transport of said medium from a medium storage element slot to one of said data transfer elements (e.g. see column 6, lines 15-19; column 10, lines 55 et seq.; column lines et seq.)

As per claim 7; Smith discloses reading said identification (VOLSER) number of the medium/tape using a data transfer element receiving said medium (e.g. see column lines 22-23)7

As per claim 8, Smith discloses checking memory storage associated with said at least one selected data transfer element

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for said identification number of said medium/tape is equivalently taught as the host computer interrogates circuitry within each of the tape carriers to determine whether there is a match between a requested VOLSER number and the VOLSER numbers tapes currently stored in the respective tape carriers in order to accept or to reject the tape media (e.g. see column lines 14-19);

As per claims 10 and 11, Smith discloses the identification number (VOLSER) is encoded in a barcode, disposed on the medium and wherein the identification (VOLSER) number resides cartridge memory of said medium (e.g. see column 14, lines 5 et seq.).

As per claim 12, Smith further discloses that wherein said data library is partitioned into a plurality of partitions or tape cartridges (e.g. see column 8, lines 20-21) and the recording step comprises reading said identification numbers of said media in a particular partition (VOLSER of the tape cartridge is read and encoded when host computer 52 received a tape cartridge request; e.g. see column 15, lines 14 et seq.); in addition, Smith also discloses the restricting access of the selected data transfer elements to the media in a same partition or tape cartridge as being equivalent to when comparing the VOLSER number read from a respective receptacle to the requested VOLSER number that does not match at decision block 418, a

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negative output (or restricted access order) is sent along path 411 and 413 (e.g. see column 24, lines 53 et seq.);

As per claim 13, Smith discloses wherein the unique identification numbers are universally unique (e.g. see column lines 39-43 and lines 60-62);

As per claim 22, Smith discloses a partitioned data library comprises data storage media (e.g. see figures 1 and each medium of the media (tape cartridge) having an identification number (e.g. see column lines 18-21); a plurality of storage element slots each of said slots adapted to store a medium of said data storage media (e.g. see figure 2; column 8, lines 33 et seq.; also column 59 et seq.), at least one set of at least one of said slots assigned to one partition of a plurality of library partitions is equivalently taught as twenty tape cartridge slots is assigned for each tape carrier (e.g. see column 8, lines 63-65); Smith further discloses a plurality of data transfer elements that are adapted to receive said media and transfer data to and from said media wherein each of at least one set of at least one of said data transfer elements assigned to one of said library partitions as being equivalent to data transmission means associated with each carrier receptacle and each tape for updating the memory of each carrier when a tape is transferred or removed (e.g. see column 6, lines 46 et seq.). Smith discloses utilizing the VOLSER number in

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order to track the location of a particular tape in a tape carrier based upon a match of the VOLSER number; for example, Smith discloses if the VOLSER numbers do match, a positive instruction is sent to action block 420, instructing the system to get the aisle, rack, and position numbers of the particular receptacle out of the 64 byte EEPROM memory in the microcontroller 300 (e.g. see column 24, lines 44-61). Smith does not particularly disclose access to said media by each of said data transfer elements is restricted to media having particular ones of said identification numbers. It should be noted that by determining the location of the requested medium (tape) with respect to the matching of the VOLSER numbers, it's clearly understood that any transfer element within Smith's system must only accept media associated with the matching VOLSER in order to avoid transferring of any unmatched media or unmatched media data to the host. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the current invention was made to implement the data transfer element in the library to only accept media having matching VOLSER number or access to the media by each of the data transfer elements is restricted to media having particular ones of the identification numbers as being claimed. In doing so, it would enhance system reliability; reducing data transferring error by avoiding reading wrong data in any unmatched media,

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therefore being advantageous.

As per claim 23, Smith discloses library controller as being equivalent to library controller circuit 42 for directing movement of said media to and from one of said set of slots to and from one of said sets of data transfer elements assigned to a same of said partitions (e.g. see figure 6);

As per claim 25, Smith discloses the EEPROM chip for storing identification numbers VOLSER that data transfer element is allowed to access (e.g. see column 11, lines 25-28);

As per claim 26, wherein said identification number is encoded in a barcode disposed on said medium (e.g. see column 14, lines 5 et seq.);

As per claim 27, wherein the identification numbers (VOLSER) reside in cartridge memory of said media (e.g. see column 8, lines 18 et seq.);

As per claim 28, wherein said identification number of said medium is read during transport of said medium from one of said storage element slots to one of said data transfer elements (e.g. see column 6, lines 15-197 column 10, lines 55 et seq.; column 11, lines 23 et seq.);

As per claim 29, Smith discloses the media identification numbers (VOLSER) are read by the data transfer elements (e.g. lines 24 et seq.) ;

As per claim 30, wherein the unique identification numbers

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are universally unique (e.g. see column lines 39-43 and lines 60-62);

Allowable subject matter

5. Claims 9 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and intervening claims. The prior arts of record neither disclose nor teach a medium is rejected from one of the data transfer element in response to the identification number not being one of the particular ones of the identification numbers.

6. With respect to the remark, Applicant's counsel argued that the motivation to modify Smith reference is not an objective reason to combine the teachings of the reference for claims 1 and 22; and the conclusion of obviousness is based upon improper hindsight reasoning (amendment's pages 7-11).

First of all, Examiner would like to emphasize that Smith clearly suggest determining the location of the requested medium (tape) with respect to the matching of the VOLSER numbers, therefore, one can conclude that any transfer element within Smith's system must only accept media associated with the matching VOLSER ID in order to avoid transferring of any unmatched media or unmatched media data to the host; in addition,

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the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). In response to Applicant's argument that the Examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was made, and does not include knowledge gleaned only from the Applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

7. Applicant's arguments filed April 19, 2006 have been fully considered but they are not deemed to be persuasive.

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. 1.136(a).

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A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

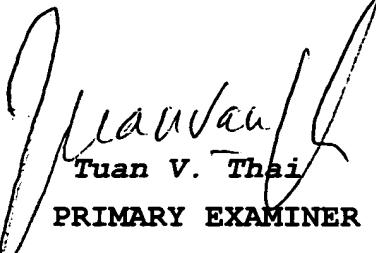
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Business Center (EBC) at 866-217-9197 (toll-free).

TVT/July 07, 2006


Tuan V. Thai
PRIMARY EXAMINER
Group 2100